

Abstract

The invention relates to uninterruptible power supply devices
5 which make it possible to supply emergency power to a load,
which is to be supplied, in the event of mains failure.

The invention is based on the object of providing a device
for supplying uninterruptible power, which device can be
10 operated in a more energy-saving manner and in which the
emergency power can be controlled in a rapid and safe manner.

To this end, the uninterruptible power supply device (10) has
a power transistor (42) which can be rapidly switched and can
15 be used to connect a standby power source (60) to the output
connections (100, 101) during emergency power operation. The
output current can also be dynamically limited by driving the
power transistor, which can be rapidly switched, in a
corresponding manner.

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In addition, the input and output of the UPS device (10) are
decoupled using a field effect transistor (22) that acts as a
power transistor.

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